INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25438

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B28C 5/58 US CL : 366/54 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 366/54, 53, 63, 57			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	* Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Α	JP 53-88261 A (KUWABARA) 03 August 1978 (03.08.1978), see entire document.		1-56
A	US 2,511,240 A (BOHMER et al) 13 JUNE 1950 (13.06.1950), see entire document.		1-56
A	US 4,435,082 A (BISHOP) 06 MARCH 1984 (06.03.1984), see entire document.		1-56
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents: "T" later document published after the international filing date of the internationa			
"A" documen	at defining the general state of the art which is not considered to be	date and not in conflict with the appli principle or theory underlying the inv	
of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search 07 April 2004 (07.04.2004)		Date of mailing of the international search report 0.4 MAY 2004	
		Authorized officer	11:0
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		O 4 MAY 2004 Authorized officer Tony G Soohoo	
Alexandria, Virginia 22313-1450 T Facsimile No. (703) 305-3230		Telephone No. 517-272-1700	

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 3 March 2005 (03.03.2005)

PCT

(10) International Publication Number WO 2005/018895 A1

(51) International Patent Classification7:

B28C 5/38

(21) International Application Number:

PCT/US2003/025438

(22) International Filing Date: 15 August 2003 (15.08.2003)

(25) Filing Language:

English

(26) Publication Language:

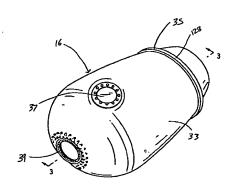
English

(71) Applicants (for all designated States except US): MC NEILUS TRUCK AND MANUFACTURING, INC. [US/US]; P.O. Box 70, Highway 14 East, Dodge Center, MN 55927 (US). FAVCO COMPOSITE TECHNOL-OGY (US), INC. [AU/AU]; 39 Shoalhaven Road, Sylvania Waters, Sydney, NSW 2224 (AU). FAVCO TRUCK MIXERS INTERNATIONAL PTY LIMITED [AU/AU]; 39 Shoalhaven Road, Sylvania Waters, Sydney, NSW 2224 (AU). COMPOSITE TECHNOLOGY R & D PTY LIMITED [AU/AU]; 39 Shoalhaven Road, Sylvania Waters, Sydney, NSW 2224 (AU). KHOURI, Anthony, James [AU/AU]; 39 Shoalhaven Road, Sylvania Waters, Sydney, NSW 2224 (AU). RODGERS, William [AU/AU]; 10-12 Childs Road, Chipping Norton, Sydney, NSW 2224 (AU).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PIHKOVICH, Vadim [—/—]; * (**). CHRISTENSON, Ronald, E. [US/US]; 720 Boss Reeves Road, Parsons, TN 30363 (US). DALY, Ted [US/US]; 809 4th Street, NE, Kasson, MN 55944 (US).
- (74) Agent: ANDERSON, Mathew, P.; Foley & Lardner, 777 East Wisconsin Avenue, Milwaukee, WI 53202-5306 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

[Continued on next page]

(54) Title: MIXING DRUM DRIVE RING



(57) Abstract: A composite, heavy duty rotary concrete mixing drum (16) for coupling to a vehicle having a drivetrain (18) for rotating the drum (16) comprises a wall and a drive ring. The wall defines a first end of the drum and a second end of the drum. The drive ring (39) is coupled to the first end of the drum and includes a hub (108, 252) and a plurality of extensions (110, 254). The hub is operatively coupled to the drivetrain. The plurality of extensions (110, 254) extend outwardly from the hub (108, 252) into the wall of the drum. At least one of the extensions includes an aperture (121, 126) extending therethrough. Rotation of the hub by the second drivetrain causes rotation of the drum.



